

07.01.01. MODIS VNIR - 15 Aug 2001

1.0 File Format

ESRI ArcView grid theme composed of several files in a data structure composed of multiple directories.

2.0 Theme Metadata

MODIS image metadata provided by NASA for the original image.

3.0 Description

The Moderate Resolution Imaging Spectroradiometer (MODIS) is carried on board the NASA Terra satellite. MODIS provides continuous global coverage every one to two days, and collects data from 36 spectral bands. Two bands (1-2) have a ground pixel resolution (GPR) of 250 meters. Five bands (3-7) have a GPR of 500 meters. The remaining bands (8-36) have a GPR of 1000 meters. The swath width for MODIS is 2,330 kilometers, enough to cover the entire Columbia River Basin in one image.

MODIS provides frequent images of a location to monitor seasonal changes in vegetation reflectance. Bands 1 (red) and band 2 (infrared) match Landsat 7 bands 3 and 4 offering an opportunity for spectral comparison. This MODIS VNIR image mimics a Landsat 7 VNIR image by duplicating band 1 in the blue channel of the display image. Healthy and well-watered vegetation appears bright red in the image. Cropping patterns and irrigated coverage are evident at the 250 m GPR.

4.0 Projection

Original imagery reprojected to Universal Transverse Mercator Zone 10 North, North American Datum of 1927.

